

Explosion-proof Micro Pressure Gauge with Switch Contact (Inductive Switch Type)

Model: ECI-LP

Introduction

ECI-LP pressure gauge with inductive switch adopts diaphragm as measuring elements, which is suitable for micro pressure measurement. When pressure increase/decrease to set point, the contact will make/breaks to control and alarm the connected facility.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- Adopts SPST explosion-proof inductive switch
 - Contact for 4" /6" pressure gauge
- Non-contact type switch, comply with
 - Explosion-proof level Exib II CT6
- Specially designed for measuring micro pressure
- Liquid-filled available, protection level IP65

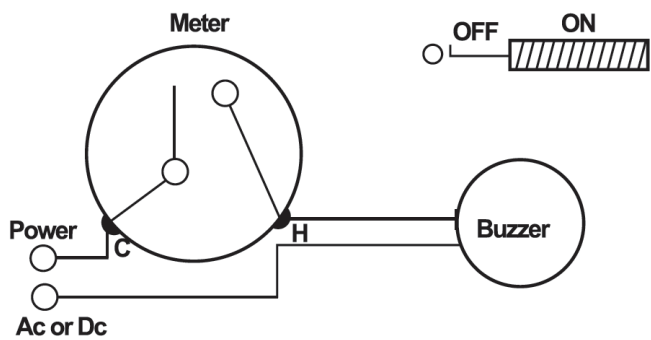
Main Specifications

- ▼ **Size**
4" , 6"
- ▼ **Window**
Safety glass
- ▼ **Pressure connection**
Material: SS316
Welded / O-ring sealed
Thread size: 1/4" ,3/8" ,1/2"
Thread type: BSPT, NPT, PF
- ▼ **Pressure range**
Gauge pressure ▼
0...400 to 10000mmH₂O
Negative pressure ▼
-1...0bar / -76...0cmHg
Compound pressure ▼
-1...0 to 10000mmH₂O
- ▼ **Applicable fluid**
Liquid and gas that compatible with connection's material
- ▼ **Ambient temperature**
-20°C to +60°C
- ▼ **Fluid temperature**
+100°C
- ▼ **Liquid-filling**
Glycerin
(For pressure range over 2500mmH₂O)
- ▼ **Temperature drift**
20°C as standard, every ±8°C
max. error: ±0.5% F.S.
- ▼ **Explosion-proof level**
Exib II CT6

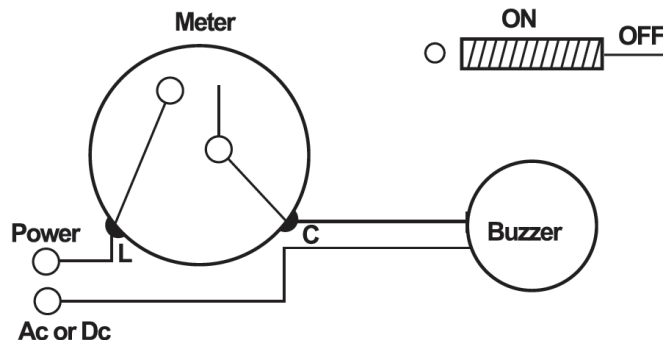
Other Specifications

- ▼ **Ring material**
Stainless steel
- ▼ **Ring mount**
Outside bayonet
Adjustable set point
- ▼ **Case material**
SS 304
- ▼ **Wiring type**
Concealed magnet base with junction box
- ▼ **Switch contact type**
Inductive Switch SPST (NC / NO)
- ▼ **Contact function**
Single contact N.O. (1a) /
Single contact N.C. (1b) /
Double contacts N.O.+N.C. (1a1b) /
Double contacts N.C.+N.O. (1b1a) /
Double contacts N.O.x2 (2a) /
Double contacts N.C.x2 (2b)
For more information please refer to single / double contacts wiring
- ▼ **Number of contact**
SPSTx1 / SPSTx2 / SPSTx4
- ▼ **Contact material**
80% silver, 20% nickel, 10µm gold-plated (>110V)
Gold (≤36V)
- ▼ **Pointer**
Aluminum with black enamel
- ▼ **Dial face**
Red and black scale
Pressure unit, scale, and color can be customized upon request
- ▼ **Measuring elements**
Diaphragm
Material: SS316
- ▼ **Protection design (option)**
Install a blow out back (Only available for 4")
- ▼ **Movement**
Stainless steel
- ▼ **Gauge accuracy**
±2.5% (Option: ±1.6%, 1%)
- ▼ **Set point accuracy**
±3~6%
- ▼ **Max operating voltage**
380VAC / 220VDC
- ▼ **Max current**
1A
- ▼ **Contact capacity**
30VA
- ▼ **Operating pressure**
Stabilization: 3/4* F.S.
Fluctuation: 3/4* F.S.
Impulse: 1* F.S.

Contact wiring type



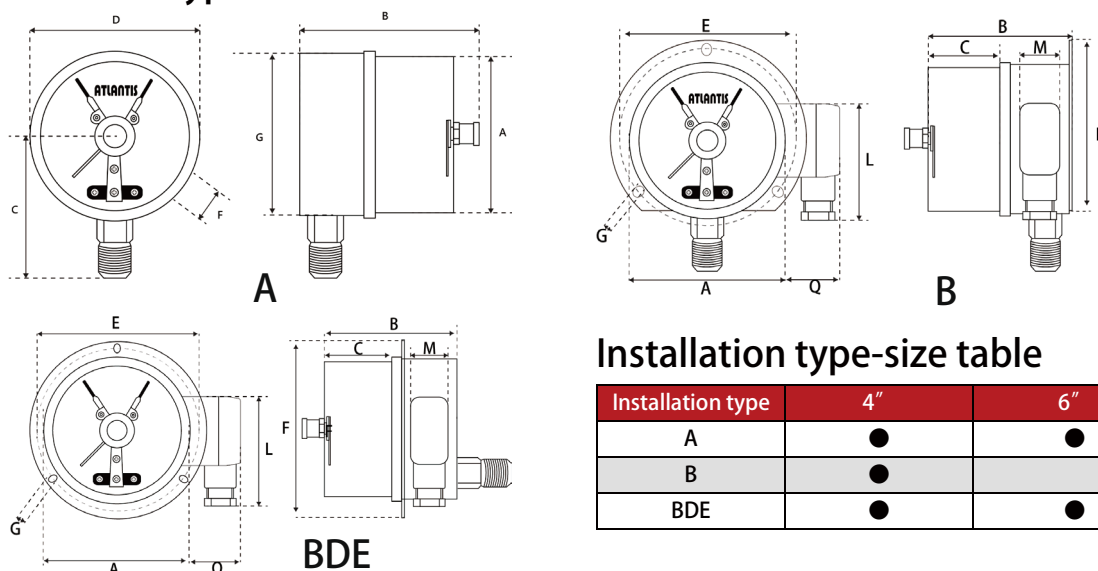
Single contact N.O. (1a)



Single contact N.C. (1b)

Double contacts		
	<p>When the pressure indicator reaches left set point (green pointer), "1" contact breaks (circuit open); When the pressure indicator reaches right set point (red pointer), "2" contact makes (circuit close) (NC+NO) <Positive pressure: left→right> Switch mode: SPST X 2</p>	1a1b
	<p>When the pressure indicator reaches left set point (red pointer), "1" contact makes (circuit close) When the pressure indicator reaches right set point (green pointer), "2" contact breaks (circuit open) (NO+NC) <Positive pressure: left→right> Switch mode: SPST X 2</p>	1b1a
	<p>When the pressure indicator reaches left set point (yellow pointer), "1" contact makes (circuit close) When the pressure indicator reaches right set point (red pointer), "2" contact makes (circuit close) (NO x 2) <Positive pressure: left→right> Switch mode: SPST X 2</p>	2a
	<p>When the pressure indicator reaches left set point (green pointer), "1" contact breaks (circuit open) When the pressure indicator reaches right set point (yellow pointer), "2" contact breaks (circuit open) (NC x 2) <Positive pressure: left→right> Switch mode: SPST X 2</p>	2b

Installation type



Installation type-size table

Installation type	4"	6"
A	●	●
B	●	●
BDE	●	●

How to order

ECI-LP Explosion-proof Micro Pressure Gauge with Switch Contact (Inductive Switch Type)										
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item	
04	Size	04	4"	06	6"	-	-	-	-	
1a1b	Contact function	1a	N.O.	1b	N.C.	1a1b	N.O.+N.C.	1b1a	N.C.+N.O.	
		2a	N.O.x2	2b	N.C.x2	-	-	-	-	
2	Number of contact	1	SPSTx1	2	SPSTx2	4	SPSTx4	-	-	
316	Connection material	316	SS316	O	Others	-	-	-	-	
316	Diaphragm material	316	SS316	O	Others	-	-	-	-	
2	Thread size	2	1/4"	3	3/8"	4	1/2"	O	Others	
N	Thread type	P	BSPT	N	NPT	F	PF	O	Others	
Custom	Pressure range	Gauge pressure ▼ 0...400 to 10000mmH ₂ O Negative pressure ▼ -1...0bar / -76...0cmHg Compound pressure ▼ -1...0 to 10000mmH ₂ O Customized pressure unit (inHg, mmHg, cmHg, etc...), single / dual scale								
C	Accuracy	A	±1%	B	±1.6%	C	±2.5%	-	-	
/D	Other requests	/A	Third party notarized documents			/B	Inspection report			
		/C	Tag			/D	Customized dial face (scale, color, unit, etc.)			
		/E	Install a diaphragm seal			/F	Filled with insulating oil (For pressure range >2500mmH ₂ O only)			
		/G	Diaphragm with PTFE coating			/H	Internal stop pin for overpressure protection			
		/I	Max. voltage AC 380 V			/J	Epoxy coating			
		/K	Install a blow out back			/L	Case material SS316			
/M	Contact material: platinum-iridium alloy			/N	Contact material: pure silver 999					

Others: ECI-LP - 04 - 1a1b - 2 - 316 - 316 - 2 - N - (0...10bar) - C + /D